

IN THE CLAIMS

Please amend the claims as follows:

1-7. (cancelled)

8. (currently amended) A composition ~~for the at least partial production or reproduction of bone~~ comprising a carrier selected from the group consisting of polymer, ceramic, metallic and nonmetallic materials; and an active ingredient complex, said active ingredient complex comprising at least one bone derived structural component, at least one bone derived chemotactic component, at least one bone derived adhesion component, and at least one bone derived growth or maturation component.

9. (cancelled)

10. (previously amended) A composition according to claim 8, wherein the ceramic carrier materials are selected from the group consisting of hydroxylapatite, calciumphosphate, aluminum oxide, and ionomer cement.

11. (previously amended) A composition according to claim 8, wherein the metallic carrier material is titanium or titanium alloy.

12. (previously amended) A composition according to claim 8, wherein the nonmetallic carrier material is carbon.

13. (previously amended) A composition according to claim 8, wherein the polymer is derived from natural monomers taken from the group consisting of amino acids, glutamic acid, lactic acid, hydroacetic acid, and copolymers thereof.

14. (previously amended) A composition according to claim 8, wherein the polymer is a polylactate.

15. (currently amended) A method of ~~producing, reproducing or~~ stabilizing vertebral structures or treating broken vertebral structures ~~of~~ or fixing endoprosthesis comprising the step of implanting a composition according to claim 8 into living beings.

16. (cancelled)

17. (previously amended) A method according to claim 15, wherein the metallic carrier material is titanium or a titanium alloy.

18. (previously amended) A method according to claim 15, wherein the nonmetallic carrier material is carbon.

19. (previously amended) A method according to claim 15, wherein the ceramic carrier materials are selected from the group consisting of hydroxylapatite, calciumphosphate, aluminum oxide, and ionomer cement.

20. (previously amended) A method according to claim 15, wherein the carrier is an endoprosthesis.

21. (previously amended) A method of treating osteoporosis and pseudoarthrosis or of filling bone defects comprising the step of implanting a composition according to claim 8 into living beings.

22. (cancelled)

23. (previously amended) A method according to claim 21, wherein the ceramic carrier materials are selected from the group consisting of hydroxylapatite, calciumphosphate, aluminum oxide, and ionomer cement.

24. (previously amended) A method according to claim 21, wherein the metallic carrier material is titanium or a titanium alloy.

25. (previously amended) A method according to claim 21, wherein the nonmetallic carrier material is carbon.

26. (previously amended) A method according to claim 21, wherein large bone defects are filled.

27. (previously amended) A method according to claim 21, wherein the polymer is derived from natural monomers taken from the group consisting of amino acids, glutamic acid, lactic acid, hydroacetic acid, and copolymers thereof.

28. (previously amended) A method according to claim 27, wherein the polymer is a polylactate.

29. (previously amended) A method according to claim ~~22~~ 21, wherein the polymer is derived from natural monomers taken from the group consisting of amino acids, glutamic acid, lactic acid, hydroacetic acid, and copolymers thereof.

30. (previously amended) A method according to claim 29, wherein the polymer is a polylactate.

31. (previously amended) A composition according to claim 8, wherein the carrier comprises a lattice structure for receiving the active ingredient complex therein.

32. (previously amended) A method according to claim 15, wherein the carrier comprises a lattice structure for receiving the active ingredient complex therein.

33. (previously amended) A method according to claim 21, wherein the carrier comprises a lattice structure for receiving the active ingredient complex therein.

34. (previously amended) A composition according to claim 8, wherein the carrier is collagen coated with the active ingredient complex.

35. (previously amended) A method according to claim 15, wherein the carrier is a collagen coated with the active ingredient complex.

36-37. (cancelled)

38. (previously amended) A composition according to claim 8, wherein said growth or maturation component is a cytokine.

39. (previously amended) A method according to claim 15, wherein said growth or maturation component is a cytokine.